

Item	Qty	Reference	Part Name	Description	NOTE
11	11	1D8	11SS302	1Switch Diode	
12	11	1D4	11SS312	1Switch Diode	1WX or FM
13	11	1D6	11SS312	1Switch Diode	1WX
14	11	1D10	11SS312	1Switch Diode	
15	13	1D1-3	11SS314	1Switch diode	
16	11	1D7	11SS314	1Switch diode	1WX
17	11	1D9	11SV270	1Variable capacitance diode	
18	14	1Q1-2 Q7 Q9	12SC5226 /LN4	1RF Transistor	
19	12	1Q5-6	12SC4226 /R24	1RF Transistor	
110	12	1Q3-4	12SC5226 /LN4	1RF Transistor	1WX
111	11	1Q10	12SC5226 /LN4	1RF Transistor	1FM
112	110	1C1 C6 C11 C58 C78-79 C83 C86	1220p		
1	1	1C88 C91			
113	14	1C3-4 C76 C5	110p		
114	13	1C15 C54-55	115p		
115	11	1C19	11.5p		
116	18	1C20 C22 C28 C49 C52 C17 C61	10.1u		
1	1	1C96			
117	16	1C29 C24 C16 C64 C84 C23	11000p		
118	11	1C35	127p		1WX
119	11	1C36	110p		1WX
120	13	1C37 C39 C56	115p		1WX
121	11	1C40	15.6p		1WX
122	16	1C41 C63 C10 C95 C98-99	1*		
123	14	1C48 C26 C71 C85	10.01u		
124	11	1C31	10.5p		
125	11	1C30	1open		
126	14	1C38 C43 C68 C44	11000p		1WX
127	13	1C27 C57 C70	1100p		
128	11	1C32	130p		1FM
129	12	1C65 C73	112p		
130	11	1C67	13p		
131	12	1C12 C93	14.7p		
132	12	1C62 C90	13.9p		
133	11	1C66	11u		1WX
134	11	1C74	13.9nH	1IND0603	
135	11	1C75	13p		1FM
136	11	1C13	12p	1CAP0603	
137	11	1C77	16.8p		
138	11	1C14	118p		
139	13	1C2 C53 C8	18.2p		

140	11	IC33	127p	I	IFM	I
141	11	IC82	10.1u	I	IWX	I
142	11	IC7	10.1u	I	IFM	I
143	11	IC87	11000p	I	IFM	I
144	11	IC9	122p	I	I	I
145	11	IC89	10 OHM	I	I	I
146	11	IC25	14700p	I	I	I
147	11	IC59	139p	I	I	I
148	11	IC92	1*	ICAP0603	I	I
149	11	IC69	1*	I	IWX	I
150	11	IC94	124p	I	IFM	I
151	11	IC45	10.5p	I	IWX	I
152	11	IC34	110p	I	IFM	I
153	11	IC97	10.068	I	I	I
154	11	IC46	130p	I	I	I
155	11	IC47	127p	I	I	I
156	11	IU1	ICDM450C24	ICeramic Discriminator	I	I
157	11	IFIL2	ICFM450G	ICeramic filter	I	I
158	11	ICONN1	116pin (P)	ISMD type connector	I	I
159	11	ID11	IDA204U	ISwitch Diode	I	I
160	11	IQ11	IDTC114YUA	I Switch Transistor with	IWX	I
1	1	I	I	Iresistor	I	I
161	13	IL1-3	1501404	IAir coil	I	I
162	11	IL4	118nH	IAir coil size 1008	I	I
163	11	IL5	18.2nH	IAir Coil size 0805	I	I
164	12	IL6 L26	1100nH	1IND0603	I	I
165	11	IL8	13.3uH	1IND0805 multi-layer	I	I
166	11	IL10	1501402	IAir coil	I	I
167	11	IL11	1150nH	1IND0805	IFM	I
168	12	IL12 L14	168nH	1IND0603	IWX	I
169	11	IL13	139nH	1IND0603	IWX	I
170	11	IL15	1501405	IAir coil	I	I
171	11	IL16	1*	1IND0603	I	I
172	11	IL17	14.7nH	1IND0805	I	I
173	11	IL19	122nH	IAir coil size 0805	I	I
174	11	IL20	147nH	1IND0603	I	I
175	11	IL21	1*	1IND0805	I	I
176	12	IL22 L7	115nH	1IND0603	I	I
177	11	IL24	168nH	1IND0603	IFM	I
178	11	IL23	139nH	1IND0603	IFM	I
179	11	IR40	14.7k	1RES0603	IWX	I
180	11	IL9	11uH	1IND1008	I	I
181	11	IQ8	1MRF9382T1	1RF POWER FET	I	I

182	11	IPCBI	IFRS-R05E	IPrinting Circuit Board		
183	14	IR1 R5 R15 R65	11.5k			
184	13	IR2 R38 R50	147k			
185	12	IR8 R19	13.3k		1WX	
186	12	IR10 R25	1150k			
187	11	IR12	15.6k			
188	11	IR13	122k			
189	12	IR14 R45	14.7k			
190	14	IR16 R42 R55 R63	1*			
191	12	IR20 R61	147k		1WX	
192	11	IR22	11k		1WX	
193	11	IR23	110k		1WX	
194	11	IR24	12.7k		1WX	
195	14	IR11 R30 R39 R59	11k			
196	14	IR29 R26-28	133k			
197	11	IR33	12.2k			
198	13	IR34 R49 R64	1100			
199	11	IR37	10 ohm	IRESO603		
1100	15	IR6 R47-48 R58 R60	110k			
1101	14	IR44 R35 R52 R43	13.3k			
1102	11	IR41	14.7k		1WX	
1103	12	IR3-4	1330			
1104	12	IR51 R36	1470			
1105	11	IR53	147k		1FM	
1106	11	IR54	1680		1FM	
1107	11	IR18	13.3k		1FM	
1108	11	IR56	1open			
1109	11	IR57	147			
1110	11	IR17	1100k			
1111	11	IR32	13.9k			
1112	11	IR31	11k	IRESO603		
1113	11	IR21	1*		1WX	
1114	12	IR9 R7	12.7k			
1115	11	IR46	122			
1116	11	IFIL1	ITA-466E1	ISAW Filter		
1117	11	IS1	115 X 15 X 3	IShielding box		
1	1	1	1materials:bras1			
1	1	1	1s			
1118	11	IU2	IHM8108	IPLL IC		
1119	11	IU3	ITA31136	IIF/DET IC		
1120	16	IC18 C21 C42 C60 C72 C80	110u	ICAP1206		
1121	11	IC51	10.1u	ICAP1206		
1122	11	IC50	13.3u	ICAP1206		

1123	11	IC81	110n	ICAP1206	1WX	1
1124	11	ITC1	13-10p	1Trimmer CAP (TZC03)	1	1
1125	11	ITC2	12-6p	1Trimmer CAP (TZVY2)	1	1
1126	11	IFIL3	121M15A	1X'tal filter size UM-5	1	1
1127	11	IX1	120.950MHz	1X'tal size UM-5	1	1

APOLLO FRS 2.1 材料表

B.O.M. OF AFRS 2.1

AFRS 2.1 DIGIT PCB V-6

DATE: MAY.10.2001

ITEM	PART NUMBER	DISCRPTION	QTY	REFERENCE NUMBER
1		IC, CPU M38223M4P-XXX HP	PCS 1	U05
2		IC, PW. OP. NJM2070M	PCS 1	U03
3		IC, CTCSS PROCESSOR CMX808A	PCS 1	U01
4		IC, G.OP.x2 NJM2904M	PCS 1	U02
5		IC, EPROM, 24LC02B, 3V	PCS 1	U06
6		IC, Regulator, XC6204B302MR	PCS 1	U07
7		IC, Regulator, XC6201P302MR	PCS 1	U08
8		IC, V/D, XC61AC2202	PCS 1	U04
9		T/R, SOT23, 2SA1362GR	PCS 1	Q08
10		T/R, UMD, DTA114YUA	PCS 7	Q01, Q02, Q010, Q011, Q012, Q013, Q016
11		T/R, UMD, DTC114YUA	PCS 3	Q03, Q04, Q07
12		LED, LVG9932/TR(0603), GREEN	PCS 1	LED01
13		LED, LSR9932/TR(0603), RED	PCS 1	LED02
14		LED, CL-200YG-C-TS	PCS 1	LED04
15		DIODE, SMD, SM4403A	PCS 2	D05 D06
16		DIODE, SMD, 1N4148	PCS 2	D02 D04
17		C/R (0603), 5%, 2.2 ohm	PCS 1	R054
18		C/R (0603), 5%, 33	PCS 1	R05
19		C/R (0603), 5%, 100	PCS 4	R01, R02, R023, R024
20		C/R (0603), 5%, 220	PCS 1	R03
21		C/R (0603), 5%, 470	PCS 1	R065
22		C/R (0603), 5%, 1K	PCS 3	R04 R051 R08
23		C/R (0603), 5%, 2K2	PCS 1	R028
24		C/R (0603), 5%, 3K3	PCS 2	R011 R032
25		C/R (0603), 5%, 4K7	PCS 2	R040 R066
26		C/R (0603), 5%, 8K2	PCS 1	R030
27		C/R (0603), 5%, 10K	PCS 2	R039 R073
28		C/R (0603), 5%, 15K	PCS 2	R045 R067
29		C/R (0603), 5%, 18K	PCS 2	R029 R047
30		C/R (0603), 5%, 22K	PCS 2	R033 R034
31		C/R (0603), 5%, 27K	PCS 1	R012
32		C/R (0603), 5%, 33K	PCS 1	R044
33		C/R (0603), 5%, 39K	PCS 1	R037
34		C/R (0603), 5%, 47K	PCS 1	R052
35		C/R (0603), 5%, 56K	PCS 1	R035
36		C/R (0603), 5%, 75K	PCS 1	R015 (PCB 使用 6V 時 R015 = 150K, 使用 4.5V 時 R015 = 75K)
37		C/R (0603), 5%, 82K	PCS 1	R074
38		C/R (0603), 5%, 100K	PCS 3	R036 R046 R075
39		C/R (0603), 5%, 150K	PCS 5	R016 R058 R068 R069 R070
40		C/R (0603), 5%, 220K	PCS 2	R059 R031
41		C/R (0603), 5%, 560K	PCS 1	R048
42		C/R (0603), 5%, 10M	PCS 1	R06
43		C/R (1206), 5%, 0 ohm	PCS 1	C020
44		C/C (0603), 5%, 20P	PCS 3	C05 C046 C047
45		C/C (0603), 5%, 100P	PCS 1	C028
46		C/C (0603), 5%, 470P	PCS 1	C09
47		C/C (0603), 5%, 102	PCS 4	C07 C030 C038 C048
48		C/C (0603), 10%, 223	PCS 1	C018
49		C/C (0603), 10%, 104	PCS 1	C029
50		C/C (0603), +80%-20%, 104	PCS 12	C01-C04, C06, C016, C022, C034, C037, C053, C055, C057
51		C/C (0603), +80%-20%, 105	PCS 8	C08, C010, C011, C025, C026, C050, C051, C056
52		T/C, A SIZE, 10uF/7V	PCS 1	C035
53		E/C, SMD, 6D, 100uF/7V	PCS 1	C014
54		PCB 4 layers 1mm AFRS-2.1	PCS 1	PCB F45-4038-1D0
55		Crystal 3x9, 34ppm, 4MHz	PCS 1	X01
56		LCD BT4117AZT(26.5x15.6x7)	PCS 1	LCD
57		VR, RD0971110005-20KA(AA)	PCS 1	VR1
58		16PIN(AMP) MALE, 7mm	PCS 1	CON01
59		Tact Switch TS6301VA(180g/f)	PCS 2	PTT, MONI
60		EARPHONE JACK	PCS 1	J01
61		MICPHONE JACK	PCS 1	J02
62		SPEAK, 8 ohm / 0.5W / 36mm	PCS 1	SPK
63		R Condenser Microphone 9.5x4.6 (-40dB)	PCS 1	MIC1
64		BATTERY WIRE +	PCS 1	BAT+
65		BATTERY WIRE + to -	PCS 2	BAT+-
66		BATTERY WIRE -	PCS 1	BAT-
67		SPEAK WIRE +	PCS 1	SPK+
68		SPEAK WIRE -	PCS 1	SPK-
69		LCD 液晶板	PCS 1	LCD CNT
70		LCD 固定架	PCS 1	LCD HLD
71		LCD 固定板	PCS 1	LCD HLD
72		LCD 背光板	PCS 1	LCD HLD
73		Crystal 3x9 空管	PCS 1	X01

- NOTE:
1. VOX 增加之零件為 D04, C06, R06, R08
 2. FM 增加之零件為 Q011, C08, R059
 3. WX 增加之零件為 Q013
 4. 此 PCB 可適用 4.5V 及 6V
 5. PCB 使用 6V 時 R015 = 150K, 使用 4.5V 時 R015 = 75K
 6. 此材料表適用 R05E 之 RP PCB